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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/625,819

07/23/2003

Charles M. Coushaine

02-1-874

7803

7590

06/04/2004

OSRAM SYLVANIA Inc.
100 Endicott Street
Danvers, MA 01923

EXAMINER

LEE, Y MY QUACH

ART UNIT

PAPER NUMBER

2875

DATE MAILED: 06/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/625,819	Applicant(s) COUSHAIN ET AL.	
	Examiner Y Quach Lee	Art Unit 2875	<i>aw</i>

-- Th MAILING DATE of this communication appears on th cover sheet with th correspondenc address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 8-12 is/are allowed.
- 6) ☒ Claim(s) 1,2 and 5-7 is/are rejected.
- 7) ☒ Claim(s) 3 and 4 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION***Specification***

1. The disclosure is objected to because of the following informalities: On page 4, paragraph 0017, line 1, the term “of” should be inserted after the term “view”. On page 4, paragraph 0018, line 1, the term “of” should be inserted after the term “view”. On page 6, line 7, the language “The the” is improper and should be changed to --The--. On page 6, paragraph 0025, line 4, “tothe” is improper and should be changed to --to the--. Appropriate correction is required.

Claim Objections

2. Claims 3 and 5 are objected to because of the following informalities: In claim 3, line 2, there is no proper antecedent basis for “said U”. It should be changed to --said U-shaped--. In claim 5, line 1, the language “fits a ...” is improper and should be changed to --fits in a ...--; line 4, there is a typographical error such as the term “existingng”. It should be changed to --existing--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 2 and 5 to 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verdes et al. in view of Hochstein.

Verdes et al. disclose a base having a power supply (14, 15) and formed to be received into a socket (12, column 5, lines 4 to 5), the base having a receptacle (figure 3) including a retainer receptacle formed therein, an axially extending support (35) fitted into the base and being formed of an electrically conductive heat sinking material, a plurality of solid state light sources (31) connected to a selected area of the support through wires, the support including a retainer (33) engaging the retainer receptacle, the base fitting in a preexisting socket such as the socket designed for a filament lamp (column 5, lines 4 to 5), and the light sources located on the support mimic the location of a filament in the filament lamp design for the pre-existing socket,

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and a light transmitting envelope (11) surrounding the light sources. However, Verdes et al. do not disclose an electrically insulating coating on the support which is aluminum and electrically conductive traces on the insulating coating for electrically connecting to the light sources.

Hochstein teaches that it is known in the light emitting diode assemblies art to include an electrically insulating coating (16) on an electrically and thermally conductive aluminum heat sink support (12) with electrically conductive traces (18) disposed over the insulating coating to not only establish discrete and electrically conductive paths for electrically interconnecting a plurality of light emitting diodes (20) and to provide electrical connection to the power supply for powering the light emitting diodes but to also prevent a short circuit.

Since Verdes et al. and Hochstein are both from the light emitting diodes assemblies; the purpose disclosed by Hochstein would have been recognized in the pertinent art of Verdes. Therefore, it would have been obvious to one skilled in the art to provide the support of Verdes et al. with an electrically insulating coating and conductive traces disposed over the insulating coating and to form the support of Verdes et al. with aluminum, as shown by Hochstein, for integrally and electrically interconnecting the light emitting diodes through the conductive traces while minimizing the tendency of exposing to a short circuit and to overall optimize the life expectancy of the light sources.

5. Claims 3 and 4 would be allowable if rewritten to overcome the objection set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
6. Claims 8 to 12 are allowed.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hochstein et al. and Madadi et al. are cited to show other pertinent light emitting diodes assemblies.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y Quach Lee whose telephone number is 571-272-2373. The examiner can normally be reached on Tuesday and Thursday from 8:30 am to 4:30 pm.

Any inquiry of a general nature or relating to the status of this application or proceeding

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should be directed to the Customer Service whose telephone number is 571-272-2815.

Y. Q.
May 25, 2004


Y Quach Lee
Patent Examiner
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